## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

1	<ol> <li>(Currently Amended) An automated method of preventing an</li> </ol>
2	endnode in a communication fabric from receiving an unauthorized
3	communication, comprising:
4	establishing a first category of management communications to include:
5	a request from a manager node to an endnode; and
6	a reply from the manager node to a request from an endnode;
7	establishing a second category of management communications to
8	include:
9	a reply from an endnode to a request from the manager node; and
10	a request from an endnode to the manager node; and
11	at a switching device coupled to a first endnode:
12	receiving from the communication fabric a management
13	communication packet addressed to the first endnode;
14	determining whether the first endnode is a trusted endnode;
15	determining whether the management communication is a first
16	category management communication based on a management class of the
17	node whether the management communication is originated from a
18	manager node and whether the management communication is a request or
19	a reply; and
20	responsive toif the first endnode not being is not a trusted endnode
21	and the management communication not being a first category

22	management communication, discarding the management
23	communication if the management communication is not a first category
24	management communication.
1	2. (Original) The method of claim 1, further comprising:
2	classifying each endnode in the communication fabric as either trusted or
3	untrusted.
1	(Original) The method of claim 2, wherein said classifying
2	comprises:
3	associating with each port of the switching device an indicator configured
4	to indicate whether a node coupled to the port is trusted.
1	4. (Original) The method of claim 2, wherein said classifying
2	comprises:
3	classifying the first endnode as a trusted endnode if the first endnode is a
4	manager node.
1	5. (Original) The method of claim 2, wherein said classifying
1	<ol> <li>(Original) The method of claim 2, wherein said classifying comprises:</li> </ol>
3	classifying the first endnode as an untrusted endnode if the first endnode
4	not configured to act as a manager node.
7	not configured to act as a manager node.
1	6. (Original) The method of claim 1, wherein said determining
2	comprises:
3	reading an indicator associated with a port of the switch to which the first
4	endnode is coupled;
5	wherein said indicator is configured to indicate whether the first endnode

- 6 is trusted
- 7. (Currently Amended) The method of claim 1, further comprising,
   at the switching device:
- Heresponsive to the first endnode being a is-trusted endnode, forwarding
  the management communication to the first endnode regardless of the category of
  the management communication.
- 8. (Currently Amended) The method of claim 1, further comprising,
   at the switching device:
- 3 receiving a second management communication from the first endnode;
- 4 and
- 5 responsive to the management communication not being a second
- 6 category management communication, discarding the second management
- 7 communication-if the management communication is not a second category
- 8 management communication.
  - 9. (Original) The method of claim 1, wherein the communication
- 2 fabric comprises a subnet of an InfiniBand communication fabric.
- (Original) The method of claim 9, wherein a management
- 2 communication comprises a communication transmitted on virtual lane 15 of the
- 3 InfiniBand communication fabric.
- (Currently Amended) A computer readable medium storing
- 2 instructions that, when executed by a computer, cause the computer to perform a
- 3 method of preventing an endnode in a communication fabric from receiving an
- 4 unauthorized communication, comprising:

5	establishing a first category of management communications to include:
6	a request from a manager node to an endnode; and
7	a reply from the manager node to a request from an endnode;
8	establishing a second category of management communications to
9	include:
10	a reply from an endnode to a request from the manager node; and
11	a request from an endnode to the manager node; and
12	at a switching device coupled to a first endnode:
13	receiving from the communication fabric a management communication
14	addressed to the first endnode;
15	determining whether the first endnode is a trusted endnode;
16	determining whether the management communication is a first
17	category management communication based on a management class of the
18	$\underline{\text{nodewhether}}$ the management communication $\underline{\text{is}}$ originated from $\underline{\text{a}}$
19	manager node and whether the management communication is a request or
20	a reply; and
21	if-responsive to the first endnode not being is not a trusted endnode
22	and the management communication not being a first category
23	management communication, discarding the management communication
24	if the management communication is not a first category management
25	communication.
1	12. (Currently Amended) An automated method of preventing an
2	endnode in a communication fabric from sending an unauthorized
3	communication, comprising:
4	establishing a first category of management communications to include:
5	a request from a manager node to an endnode; and
6	a reply from the manager node to a request from an endnode;

7	establishing a second category of management communications to
8	include:
9	a reply from an endnode to a request from the manager node; and
10	a request from an endnode to the manager node; and
11	at a switching device coupled to a first endnode:
12	receiving from a first endnode a management communication addressed to
13	a second endnode in the communication fabric;
14	determining whether the first endnode is a trusted endnode;
15	determining whether the management communication is a second
16	category management communication based on a management class of the
17	nodewhether the management communication is destined for originated
18	from a manager node and whether the management communication is a
19	request or a reply; and
20	if <u>responsive to</u> the first endnode is not being a trusted endnode and
21	the management communication not being a second category management
22	communication, discarding the management communication-if the
23	management communication is not a second category management
24	communication.
1	13. (Original) The method of claim 12, further comprising:
2	classifying each endnode in the communication fabric as either trusted or
3	untrusted.
1	14. (Original) The method of claim 12, wherein said classifying
2	comprises:
3	associating with each port of the switching device an indicator configured
4	to indicate whether a node coupled to the port is trusted.

2	classifying comprises:
3	responsive to the first endnode being a manager node, classifying the first
4	endnode as a trusted endnode if the first endnode is a manager node.
1	16. (Currently Amended) The method of claim 12, wherein said
2	classifying comprises:
3	responsive to the first endnode not being configured to act as a manager
4	node, classifying the first endnode as an untrusted endnode if the first endnode is
5	not configured to act as a manager node.
1	17. (Original) The method of claim 12, wherein said determining
2	comprises:
3	reading an indicator associated with a port of the switch to which the first
4	endnode is coupled;
5	wherein said indicator is configured to indicate whether the first endnode
6	is trusted.
1	18. (Currently Amended) The method of claim 12, further comprising,
2	at the switching device:
3	responsive to if the first endnode being a is-trusted endnode, forwarding
4	the management communication toward the second endnode regardless of the
5	category of the management communication.

15. (Currently Amended) The method of claim 12, wherein said

receiving a second management communication addressed to the first

(Currently Amended) The method of claim 12, further comprising,

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endnode; and

at the switching device:

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5	responsive to the management communication not being a first category
6	$\underline{\text{management communication,}} \underline{\text{discarding the second management communication}}$
7	if the management communication is not a first category management
8	eommunication.
1	20. (Original) The method of claim 12, wherein the communication
2	fabric comprises a subnet of an InfiniBand communication fabric.
1	21. (Original) The method of claim 20, wherein a management
2	communication comprises a communication transmitted on virtual lane 15 of the
3	InfiniBand communication fabric.
1	22. (Currently Amended) A computer readable medium storing
2	instructions that, when executed by a computer, cause the computer to perform a
3	method of preventing an endnode in a communication fabric from sending an
4	unauthorized communication, comprising:
5	establishing a first category of management communications to include:
6	a request from a manager node to an endnode; and
7	a reply from the manager node to a request from an endnode;
8	establishing a second category of management communications to
9	include:
0	a reply from an endnode to a request from the manager node; and
1	a request from an endnode to the manager node; and
2	at a switching device coupled to a first endnode:
3	receiving from a first endnode a management communication addressed to
4	a second endnode in the communication fabric;
5	determining whether the first endnode is a trusted endnode;
6	determining whether the management communication is a second

17	category management communication based on a management class of the
18	nodewhether the management communication is destined for originated
19	from a manager node and whether the management communication is a
20	request or a reply; and
21	responsive to if the first endnode is not being a trusted endnode,
22	discarding the management communication if the management
23	communication is not a second category management communication.
1	23. (Currently Amended) An apparatus for preventing a node in a
2	communication fabric from engaging in unauthorized communication, the
3	apparatus comprising:
4	a switching device configured to route management communications
5	through the communication fabric, wherein:
6	a type one management communications comprise requests from a
7	manager node to endnodes and replies from the manager node to requests
8	from endnodes; and
9	a type two management communications comprise replies from
10	endnodes to requests from the manager node and requests from
11	endnodes to the manager node;
12	wherein a management communication is categorized to be a type
13	one or a type two management communication based on a management
14	class of the node whether the management communication is originated
15	from or destined for a manager node and whether the management
16	communication is a request or a reply;
17	for each port of the switching device, an indicator configured to indicate
18	whether an endnode coupled to the port is trusted;
19	wherein a first management communication addressed to a first endnode
20	coupled to a first port of the switching device is discarded responsive to the first

- 21 endnode not being a trusted endnode and the first management communication
- 22 not being a type one management communication if the first endnode is not
- 23 trusted and the first management communication is not a type one management
- 24 communication; and
- 25 wherein a second management communication received from the first
- 26 endnode is discarded responsive to if the first endnode is not being a trusted
- 27 endnode and the second management communication is not being a type two
- 28 management communication.
  - (Original) The apparatus of claim 23, further comprising:
  - 2 a secure channel configured to allow a management node to configure said
  - 3 indicators.

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- 1 25. (Original) The apparatus of claim 23, wherein:
- 2 for each port coupled to another switching element, said indicator is set to
  - indicate the other switching element is trusted.
- (Original) The apparatus of claim 23, wherein:
- 2 for each port coupled to a management node, said indicator is set to
  - indicate the management node is trusted.
  - (Original) The apparatus of claim 23, wherein:
- 2 for each port coupled to an endnode that is not configured to act as a
- 3 management node, said indicator is set to indicate the endnode is not trusted.
  - (Original) The apparatus of claim 23, wherein:
- 2 the communication fabric comprises an InfiniBand communication fabric:
- 3 and

4	a management communication comprises a communication transmitted
5	over virtual lane 15 of the InfiniBand communication fabric.
1	29. (Currently Amended) A computer readable medium residing in a
2	communication switch and containing a data structure configured for indicating
3	trust, the data structure comprising:
4	for each port of the communication switch, an indicator configured to
5	indicate whether a communication node coupled to the port is trusted;
6	wherein a port indicator is set to a first state responsive to if the coupled
7	communication node being a is-trusted node and is set to a second state
8	responsive to if the coupled communication node is not being a trusted node; and
9	wherein management communications addressed to the coupled
10	communication node are filtered based on a management class of the

nodewhether the management communication is originated from or destined to a

manager node and whether the management communication is a request or a reply

if the port indicator is set to said second state.

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